



LIGHTING CONTROLLER "C101" STAGE 3 WIRING DIAGRAM
N.T.S.

LEGEND:

- PROPOSED LIGHTING UNIT: 400W, 240V PHASE TO NEUTRAL, HPS LUMINAIRE WITH TYPE III DISTRIBUTION, 45'-2" ALUMINUM POLE SHAFT ON 24" DIAMETER CONCRETE FOUNDATION, 47'-6" MOUNTING HEIGHT, 12'-0" MAST ARM, WITH 5A FUSES AND T-BASE (RED PHASE- OPEN SYMBOL, BLACK PHASE-SHADED SYMBOL)
- EXISTING LIGHTING POLE RELOCATED WITH NEW 250 HPS AND RECEPTACLE, 5A FUSES (LIGHTING UNIT ON RED PHASE- OPEN SYMBOL, BLACK PHASE-SHADED SYMBOL)
- EXISTING LIGHTING POLE RELOCATED WITH NEW 250 HPS AND RECEPTACLE, 5A FUSES (LIGHTING UNIT ON RED PHASE- OPEN SYMBOL, BLACK PHASE-SHADED SYMBOL)
- PROPOSED 120V, 20A, GFCI RECEPTACLE ON PROPOSED LIGHTING UNIT (ORANGE PHASE- OPEN SYMBOL, BROWN PHASE-SHADED SYMBOL)
- PROPOSED ROADWAY LIGHTING UNIT INSTALLED IN EARLIER CONSTRUCTION STAGE
- PROPOSED 120V, 20A, GFCI RECEPTACLE INSTALLED IN EARLIER CONSTRUCTION STAGE
- PROPOSED COMBINATION POLE LIGHTING UNIT INSTALLED IN EARLIER CONSTRUCTION STAGE
- PROPOSED ROADWAY LIGHTING CONTROLLER INSTALLED IN EARLIER CONSTRUCTION STAGE
- PROPOSED COMBINATION LIGHTING CONTROLLER INSTALLED IN EARLIER CONSTRUCTION STAGE
- COMBINATION SERVICE DISCONNECT INSTALLED IN EARLIER CONSTRUCTION STAGE
- EXISTING COMED PAD-MOUNTED TRANSFORMER FOR UTILITY SERVICE CONNECTION
- PROPOSED CONDUIT AND CABLE TO SECONDARY SIDE OF UTILITY SERVICE CONNECTION INSTALLED IN EARLIER CONSTRUCTION STAGE
- PROPOSED UNIT DUCT: SIZE AND QUANTITY OF CONDUCTORS AS INDICATED
- PROPOSED UNIT DUCT INSTALLED IN EARLIER CONSTRUCTION STAGE

NOTES:

1. SEE DRAWING E-1 FOR ELECTRICAL ABBREVIATIONS. SEE DRAWING E-2 FOR ELECTRICAL GENERAL NOTES.
2. COLOR CODING OF CONDUCTORS FOR 240/480V, 1Ø, 3W LIGHTING SYSTEM IS AS FOLLOWS:
 "A" PHASE - RED
 "B" PHASE - BLACK
 NEUTRAL - WHITE
 GROUND - GREEN
3. COLOR CODING OF CONDUCTORS FOR 120/240V, 1Ø, 3W RECEPTACLE SYSTEM IS AS FOLLOWS:
 "A" PHASE - ORANGE
 "B" PHASE - BROWN
 NEUTRAL - GRAY
 GROUND - GREEN

LIGHTING CONTROLLER "C101" ROADWAY LIGHTING PANEL LOAD TABLE					
CIRCUIT	RED PHASE		CIRCUIT	BLACK PHASE	
	AMPS	WATTS		AMPS	WATTS
A	4	960	B	2	480
C	4	960	D	2	480
E	9.1	1920	F	9.1	1920
G	8	1920	H	8	1920
I	--	--	J	--	--
K	--	--	L	--	--
M	--	--	N	--	--
O	--	--	P	--	--
Q	--	--	R	--	--
S	--	--	T	--	--
U	--	--	V	--	--
W	9.75	2340	X	7.5	1980
TOTAL	34.85	8364	TOTAL	28.6	6864

LOAD TABULATION IS BASED ON THE FOLLOWING:

400W HPS LUMINAIRE: 2.0A AT 240V
250W HPS LUMINAIRE: 1.1A AT 240V

LIGHTING CONTROLLER "C101" RECEPTACLE PANEL LOAD TABLE					
CIRCUIT	ORANGE PHASE		CIRCUIT	BROWN PHASE	
	AMPS	WATTS		AMPS	WATTS
R1	3	360	R2	1.5	180
R3	3	360	R4	1.5	180
R5	7.5	900	R6	7.5	900
R7	6	720	R8	6	720
R9	--	--	R10	--	--
R11	--	--	R12	--	--
R13	--	--	R14	--	--
R15	--	--	R16	--	--
R17	--	--	R18	--	--
TOTAL	19.5	2340	TOTAL	16.5	1980

LOAD TABULATION IS BASED ON THE FOLLOWING:

180W RECEPTACLE: 1.5A AT 120V
• FOR FUTURE MEDIAN RECEPTACLE LOADS

FILE NAME =	USER NAME = michael_bar_tustewicz	DESIGNED - JLW	REVISED -
D160M61-SHT-E49.dgn		DRAWN - CJM	REVISED -
SHT.PLAN	PLOT SCALE = 2.000000' / in.	CHECKED - KMY	REVISED -
DT60M61-SHT-E49.dgn 3/15/2013 2:27:31 PM	PLOT DATE = 3/15/2013	DATE - 03/13/2013	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-4	COOK	877	460
E-49			CONTRACT NO. 60M61	
ILLINOIS FED. AID PROJECT				